

Title (en)

CALIBRATING TIMING, GAIN AND BANDWIDTH MISMATCH IN INTERLEAVED ADCS USING INJECTION OF RANDOM PULSES

Title (de)

KALIBRIERUNGSTIMING, VERSTÄRKUNG UND BANDBREITENFEHLANPASSUNG IN VERSCHACHTELTEN ADCS MIT EINSPEISUNG VON ZUFALLSIMPULSEN

Title (fr)

CALIBRAGE DE SYNCHRONISATION, DE GAIN ET DE DÉCALAGE DE LARGEUR DE BANDE DANS DES CAN INTERCALÉS EN UTILISANT L'INJECTION D'IMPULSIONS ALÉATOIRES

Publication

EP 2850732 B1 20210224 (EN)

Application

EP 13790380 A 20130502

Priority

- US 201261648925 P 20120518
- US 201313782315 A 20130301
- US 2013039262 W 20130502

Abstract (en)

[origin: US2013307712A1] A method and a corresponding device for calibrating an interleaved analog-to-digital converter (ADC) involve injecting a pulsed, substantially-random signal into a plurality of channels in the ADC. After the substantially-random signal is injected, a gain correlation value is determined for each channel, which value indicates a degree of correlation between the injected substantially-random signal and an output of the respective channel. The gain correlation values are then compared to determine a degree of mismatch between the channels. At least one of the channels is calibrated as a function of the determined degree of mismatch.

IPC 8 full level

H03M 1/10 (2006.01); **H03M 1/12** (2006.01)

CPC (source: EP US)

H03M 1/10 (2013.01 - US); **H03M 1/1038** (2013.01 - EP US); **H03M 1/1057** (2013.01 - EP US); **H03M 1/1215** (2013.01 - EP US)

Citation (examination)

US 2009278716 A1 20091112 - KAWAHITO SHOJI [JP], et al

Designated contracting state (EPC)

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DOCDB simple family (publication)

US 2013307712 A1 20131121; **US 8872680 B2 20141028**; CN 105052039 A 20151111; CN 105052039 B 20180622; EP 2850732 A2 20150325; EP 2850732 A4 20160817; EP 2850732 B1 20210224; TW 201351887 A 20131216; TW I511466 B 20151201; WO 2013173073 A2 20131121; WO 2013173073 A3 20150806

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